

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): HASEGAWA, et al.

Group Art 2881

Serial No.: 10/656,727

Examiner: Johnnie L. Smith

Filed: September 4, 2003

For: DIFFERENTIAL PUMPING SYSTEM AND EXPOSURE APPARATUS

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop RCE  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is filed in accordance with 37 C.F.R. §§1.56, 1.97 and 1.98. The items listed on Form PTO-1449, a copy of which is enclosed, are made of record to assist the Patent and Trademark Office in its examination of this application. The Examiner is respectfully requested to fully consider the items and to independently ascertain their teaching.

1. ☒ For each of the following items listed on the enclosed copy of Form PTO-1449 that is not in the English language, an English language translation of that item or a portion thereof or a concise explanation of the relevance of that item is enclosed:

For Item A, Japanese Patent Application Publication No. 7-263322, an English language abstract (Item AA) is provided; for Item B, Japanese Patent Application Publication No. 7-74092, corresponding U.S. Patent No. 5,491,534 (Item 1) is provided; for Item C, Japanese Patent Application Publication No. 8-179514, corresponding U.S. Patent No. 5,846,678 (Item 2) is provided; and for Item D, Japanese Patent Application Publication No. 2003-318107, corresponding U.S. Patent Application Publication No. 2004/0013226 (Item 3) is provided.

2. ☐ For each of the following items listed on the enclosed copy of Form PTO-1449 that is not in the English language, a concise explanation of the relevance of that item is incorporated in the specification of the above-identified application.
3. ☐ Any copy of the items listed on the enclosed copy of Form PTO-1449 that is not enclosed with this Information Disclosure Statement was previously cited by or submitted to the Patent and Trademark Office in application Serial No. \_\_\_\_\_, filed \_\_\_\_\_.
4. ☒ No fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with:
- ☐ 37 C.F.R. §1.97(b)(1), within three months of the filing date of a national application other than a CPA; or

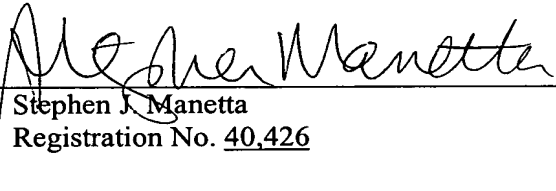
- ☐ 37 C.F.R. §1.97(b)(2), within three months of the date of entry into the national stage as set forth in §1.491 in an international application; or
- ☐ 37 C.F.R. §1.97(b)(3), before the mailing date of a first Office action on the merits; or
- ☒ 37 C.F.R. §1.97(b)(4) before the mailing date of a first office action after the filing of an RCE under §1.114.
5. ☐ No fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(c), after the period specified in paragraph 4 above but before the mailing date of a final action or a Notice of Allowance (where there has been no prior final action), and is accompanied by one of the certifications pursuant to 37 C.F.R. §1.97(e) set forth in paragraph 9 below.
6. ☐ A fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(c), after the period specified in paragraph 4 above but before the mailing date of a final action or a notice of allowance (where there has been no prior final action):
- ☐ A check in the amount of \$180.00 is enclosed in payment of the fee.
- ☐ Charge the fee to Deposit Account No. 13-4500, Order No. \_\_\_\_\_. A  
**DUPLICATE COPY OF THIS SHEET IS ATTACHED.**
7. ☐ A fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(d), after the mailing date of a final action or a notice of allowance, whichever comes first, but before payment of the issue fee, and is accompanied by:
- a. one of the certifications pursuant to 37 C.F.R. §1.97(e) set forth in paragraph 9 below; and
- b. the fee due under 37 C.F.R. §1.17(p) which is paid as set forth in paragraph 11 below.
8. ☐ A fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with:
- a. ☐ 37 C.F.R. §1.313(b)(3) or §1.313(c)(1), after the issue fee has been paid and information cited in this Information Disclosure Statement may render at least one claim unpatentable and is accompanied by the attached Petition To Withdraw Application From Issue and fee pursuant to 37 C.F.R. §1.17(h);
- b. ☐ 37 C.F.R. §1.313(c)(2) or §1.313(c)(3), after the issue fee has been paid and information cited in this Information Disclosure Statement is to be considered in a Request for Continued Examination (RCE) or a Continuation application upon abandonment of the instant application and is accompanied by the attached Petition To Withdraw Application From Issue and fee pursuant to 37 C.F.R. §1.17(h).

- c. ☐ The fees due under 37 C.F.R. §§1.17(h) and 1.17(p) are paid as set forth in paragraph 11 below.
9. ☐ I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
- ☐ I hereby certify that no item of information in the Information Disclosure Statement filed herewith was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.
10. ☐ This document is accompanied by ☐ a Search Report ☐ Communication which was cited in a corresponding ☐ PCT or ☐ Foreign counterpart application ( ).
11. ☐ A check in the amount of \$ \_\_\_\_\_ is enclosed in payment of the fees due under 37 C.F.R. §§1.17(h) and 1.17(p).
- ☐ Charge the fees due under 37 C.F.R. §§1.17(h) and 1.17(p) to Deposit Account No. 13-4500, Order No. \_\_\_\_\_. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.
- ☒ The Commissioner is hereby authorized to charge any additional fees which may be required for this Information Disclosure Statement, or credit any overpayment to Deposit Account No. 13-4500, Order No. 1232-5136. **A DUPLICATE COPY OF THIS SHEET IS ATTACHED.**

Respectfully submitted,  
MORGAN & FINNEGAN, L.L.P.

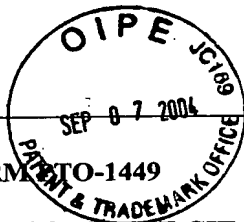
Dated: September 7, 2004

By:

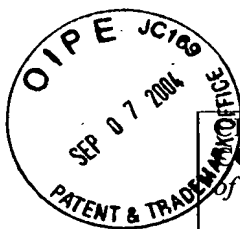
  
Stephen J. Manetta  
Registration No. 40,426

Correspondence Address:

MORGAN & FINNEGAN, L.L.P.  
3 World Financial Center  
New York, NY 10281-2101  
(212) 415-8700 Telephone  
(212) 415-8701 Facsimile



| <b>FORM PTO-1449</b><br><b>INFORMATION DISCLOSURE CITATION</b>   |      |  |                  | Attorney Docket:<br>1232-5136     | Serial No.:<br>10/656,727 |           |             |
|--|------|--|------------------|-----------------------------------|---------------------------|-----------|-------------|
|  |      |  |                  | Applicant:<br>HASEGAWA, et al.    |                           |           |             |
|  |      |  |                  | Filing Date:<br>September 4, 2003 | Group Art Unit:<br>2881   |           |             |
| <b>U.S. PATENT DOCUMENTS</b>   |      |  |                  |                                   |                           |           |             |
| Examiner Initial   | Item | Patent or Publication Number               | Issue Date       | Name                              | Class                     | Sub-Class | Filing Date |
|  | 1    | 5,491,534                                  | 02/13/96         | Shiozawa                          |                           |           |             |
|  | 2    | 5,846,678                                  | 12/08/98         | Nishigori et al.                  |                           |           |             |
|  | 3    | 2004/0013226 A1                            | 01/22/04         | Bakker et al.                     |                           |           |             |
|  | 4    |  |                  |                                   |                           |           |             |
|  | 5    |  |                  |                                   |                           |           |             |
|  | 6    |  |                  |                                   |                           |           |             |
|  |      |  |                  |                                   |                           |           |             |
|  |      |  |                  |                                   |                           |           |             |
| <b>FOREIGN PATENT DOCUMENTS</b>  |      |  |                  |                                   |                           |           |             |
| Examiner Initial   |      | Patent Number                              | Publication Date | Country                           | Class                     | Sub-Class | Translation |
|  | A    | 7-263322                                   | 10/13/95         | Japan                             |                           |           |             |
|  | B    | 7-74092                                    | 03/17/95         | Japan                             |                           |           |             |
|  | C    | 8-179514                                   | 07/12/96         | Japan                             |                           |           |             |
|  | D    | 2003-318107                                | 11/7/2003        | Japan                             |                           |           |             |
|  | E    |  |                  |                                   |                           |           |             |
|  | F    |  |                  |                                   |                           |           |             |
|  |      |  |                  |                                   |                           |           |             |
|  |      |  |                  |                                   |                           |           |             |
| <b>OTHER DOCUMENTS (Including Author, Title, Date, etc.)</b>   |      |  |                  |                                   |                           |           |             |
|  | AA   | English Abstract for JP-07-263322 (Item A) |                  |                                   |                           |           |             |
|  | BB   |  |                  |                                   |                           |           |             |
|  | CC   |  |                  |                                   |                           |           |             |
| Examiner   |      |  |                  | Date Considered                   |                           |           |             |
| <b>EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP §609.<br>Draw line through citation if not in conformance and not considered.<br>Include copy of this form with next communication to Applicant. |      |  |                  |                                   |                           |           |             |



|  |                             |                   |
|--|-----------------------------|-------------------|
| <b>CHANGE OF<br/>CORRESPONDENCE ADDRESS</b><br><i>of Application</i><br><br>Address to:<br>Mail Stop _____<br>Commissioner for Patents<br>P.O. Box 1450<br>Alexandria, VA 22313-1450 | <b>Application Number</b>   | 10/656,727        |
|  | <b>Filing Date</b>          | September 4, 2003 |
|  | <b>First Named Inventor</b> | HASEGAWA, et al.  |
|  | <b>Group Art Unit</b>       | 2881              |
|  | <b>Examiner Name</b>        | Johnnie L. Smith  |
|  | <b>Attorney Docket No.</b>  | 1232-5136         |

**Please change the Correspondence Address for the above-identified application to:**

**Customer Number** 27123

**[Morgan & Finnegan, L.L.P.]**

**3 World Financial Center**

**New York, NY 10281-2101]**

**27123**

|  |                    |              |                         |            |  |
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| <b>I am the:</b><br><br><input type="checkbox"/> <b>Applicant</b><br><input type="checkbox"/> <b>Assignee of record of the entire interest.</b><br><b>Certificate under 37 CFR 3.73(b) is enclosed.</b><br><input checked="" type="checkbox"/> <b>Attorney or agent of record.</b> |                    |              |                         |            |  |
| <b>Typed or Printed Name</b>   | Stephen J. Manetta |              | <b>Registration No.</b> | 40,426     |  |
| <b>Signature</b>   |                    |              |                         |            |  |
| <b>Date</b>  | September 7, 2004  |              |                         |            |  |